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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No. First Inventor		2072.0010002/LBB/SJE		
		Michelle M. HANNA	2	
Title	Molecular D	Molecular Detection Systems Utilizing Reiterative		

		MICHELLE IN. HANNA				
Title	Molecular Detec Oligonucleotide	Molecular Detection Systems Utilizing Reiterative Oligonucleotide Synthesis				
Express Mail Label No.			_ D	٥		

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commissioner for Patents Mail Stop Patent Application P.O. Box 1450 Alexandria VA 22313-1450			
1.	7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. ☐ Computer Readable Form (CRF) b. Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☒ paper c. ☒ Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. ☐ Assignment Papers (cover sheet & document(s)) 10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney (when there is an assignee) 11. ☐ English Translation Document (if applicable) 12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations 13. ☒ Preliminary Amendment 14. ☒ Two (2) Return Receipt Postcards (MPEP 503) (Should be specifically itemized) 15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.			
	17. Other: Authorization under 37 C.F.R. § 1.136(a)(3) Other: The name of the assignee is: Designer Genes, Inc.			
18. If a CONTINUING APPLICATION, check appropriate box, and supportion in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-Part (CIF Prior application information: Examiner Young J. Kim For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the considered a part of the disclosure of the accompanying continuation or divisions be relied upon when a portion has been inadvertently omitted from the submitted	of prior application No: 09/984,664 Group/Art Unit:1637 prior application, from which an oath or declaration is supplied under Box 5b, is			
19. CORRESPON	DENCE ADDRESS			
Customer Number or Bar Code Label Customer No. 26111 (Insert Customer No. 26111 NAME Sterne, Kessler, Goldstein & Fox Place	or Correspondence address below			
Attorneys at Law				
ADDRESS				
CITY STATE COUNTRY TELEPHONE	ZIP CODE			
COUNTRY TELEPHONE	FAX			
NAME (Print/Type) Lawrence B. Bugaisky	Registration No. (Attorney/Agent) 35,086			
SIGNATURE Lawer B Brywing	Date Jane 23. 2003			

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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SKGF Rev 5/16/03 mac #135159v1<SKGF_DC1> -2072.0010002: 06-16-2003 Divisional Application - .wvd

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FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)1,484.00

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Complete if Known				
Application Number	To Be Assigned			
Filing Date	Herewith			
First Named Inventor	Michelle M. HANNA			
Examiner Name	To Be Assigned			
Art Unit	To Be Assigned			
Attorney Docket No.	2072.0010002/LBB/SJE			

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)				
☐ Check 🄀 Credit card ☐ Money Order 🔀 Other** ☐ None	3. ADDITIONAL FEES					
** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.		Large Entity Small Entity				
Deposit Account Deposit Account 19-0036		Fee (\$)	Fee Code	Fee (\$)	Fee Description	For Dalid
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.	1051	130	2051	65	Surcharge - late filing fee or oath	Fee Paid
The Commissioner is authorized to: (check all that apply)	1502	50	2052	25	Surcharge-late provisional filing fee or cover sheet	
Charge fee(s) indicated below Credit any over payments	1053	130	1053	130	Non-English specification	
Charge any additional fee(s) during the pendency of this application	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
☐Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
	1251	110	2251	55	Extension for reply within first month	
	1252	410	2252	205	Extension for reply within second month	
FEE CALCULATION	1253	930	2253	465	Extension for reply within third month	
1. BASIC FILING FEE	1254	1,450	2254	725	Extension for reply within fourth month	
Large Entity Small Entity	1255	1,970	2255	985	Extension for reply within fifth month	
Fee Fee Fee Fee Fee Description Fee Paid	1401	320	2401	160	Notice of Appeal	
Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee \$375,00	1402	320	2402	160	Filing a brief in support of an appeal	
1002 330 2002 165 Design filing fee	1403	280	2403	140	Request for oral hearing	
1003 520 2003 260 Plant filing fee	1451	1,510		1,510	Petition to institute a public use proceeding	
1004 750 2004 375 Reissue filing fee	1452	110	2452	55		
1105 160 2005 80 Provisional filing fee					Petition to revive - unavoidable	
1	1453	1,300		650	Petition to revive - unintentional	
SUBTOTAL (1) (\$) 375.00	1501	1,300	2501	650	Utility issue fee (or reissue)	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from	1502	470	2502	235	Design issue fee	
Extra below Fee Paid	1503	630	2503	315	Plant issue fee	
Total Claims 109 - 20** = 89	1460	130	1460	130	Petitions to the Commissioner	
Multiple Dependent 140.00 = 140.00	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Stmt	
Fee Fee Fee Fee <u>Fee Description</u> Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a submission after final rejection (37 CFR	
1201 84 2201 42 Independent claims in excess of 3	1010				1.129(a))	
1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 **Reissue independent claims	1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))	
over original patent	1801	750	2801	375	Request for Continued Examination (RCE)	
1205 18 2205 9 **Reissue claims in excess of 20	1802	900	1802	900	Request for expedited examination of a design application	
and over original patent					application	
SUBTOTAL (2) (\$)1,109.00	Other re	ee (spec	ify)	182		
**or number previously paid, if greater; For Reissue, see above	* Reduc	ced by E	sasic Fi	ling Fe	e Paid SUBTOTAL (3) (\$)	-0-
SUBMITTED BY					Complete (if applicable)	
Name (Print/Type) Lawrence B. Bugaisky	Registr	ation No).	3	35,086 Telephone 202-371-	
Signature Lawrence B. Burgarch		(Bess)				2 200 2

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary and Trademark Office, U.S. Department of Commerce, O.P. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Michelle M. Hanna

Appl. No. To Be Assigned (Div. of Appl. No.09/984,664; Filed: October 30, 2001)

Filed: Herewith

For:

Molecular Detection Systems

Utilizing Reiterative Oligonucleotide Synthesis Confirmation No.

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 2072.0010002/LBB/SJE

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Lawrence B. Bugaisky Attorney for Applicant Registration No. 35,086

Date:

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

SKGF_DC1;135175.1



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Mail Stop Patent Application

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*Admitted only in Maryland * Admitted only in Virginia Practice Limited to Federal Agencies

June 23, 2003

WRITER'S DIRECT NUMBER: (202) 772-8589 **INTERNET ADDRESS:** LARRYB@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To Be Assigned; Filed: Herewith

(Div. of Appl. No. 09/984,664; Filed: October 30, 2001)

For:

Molecular Detection Systems Utilizing Reiterative Oligonucleotide

Synthesis

Inventor:

Michelle M. Hanna

Our Ref:

2072.0010002/LBB/SJE

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- PTO Fee Transmittal (Form PTO/SB/17); 1.
- PTO Utility Patent Application Transmittal (Form PTO/SB/05); 2.
- U.S. Utility Patent Application entitled: 3.

Molecular Detection Systems Utilizing Reiterative Oligonucleotide Synthesis

and naming as inventor:

Michelle M. HANNA

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A copy of the executed Declaration, as originally filed in U.S. Appl. No. 09/984,664;
- c. A specification containing:
 - i. 101 pages of description prior to the claims;
 - ii. 27 pages of claims (135 claims);
 - iii. a one (1) page abstract;
- d. 33 sheets of drawings: (Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29A, 29B, 29C, 30 and 31; and
- e. 16 pages of a paper copy of a sequence listing;
- 4. Request to Open New Disk File;
- 5. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 6. A Preliminary Amendment;
- 7. Request to Approve Proposed Drawing Corrections;
- 8. Photocopy of the 6 sheets of drawings with the corrections noted in red;
- 9. Letter to PTO Draftsman: Submission of Formal Drawings;
- 10. 31 sheets of formal drawings (Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29A, 29B, and 30;
- 11. An Information Disclosure Statement (IDS);
- 12. Form PTO-1449 (11 pages) listing 55 cited documents;
- 13. PTO-2038 Credit Card Payment Form for \$1,484.00 to cover: \$_375.00 Basic Utility Non-provisional filing fee; (37 C.F.R. § 1.16);

Commissioner for Patents June 23, 2003 Page 3

\$_801.00 Extra claims fee; (37 C.F.R. § 1.16);

\$_168.00 Extra Independent claims fee;(37 C.F.R. § 1.16);

\$ 140.00 Multiple Dependent claims fee;(37 C.F.R. § 1.16); and

14. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

James B. Bugard

Lawrence B. Bugaisky Attorney for Applicant

Registration No. 35,086

LBB/SJE/cjs Enclosures

SKGF_DC1;135145.1